

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard Bailey on 1/14/2010.

The application has been amended as follows:

Claims 2- 44 are cancelled.

Claim 1 (Currently amended) -- A water production system for efficiently making potable water in an environment of humid air comprising: ~~a~~ at least one heat exchanger in which a cooling fluid is drawn through internally by a negative pressure siphon, ~~(1)~~ said at least one heat exchanger being disposed in a path of the humid air so that the humid air flows externally on the at least one heat exchanger to condense water vapor from the humid air and produce potable water; ~~b~~ means for controlling the volume of the cooling fluid passing through the at least one heat exchanger in response to an amount of heat absorbed by the at least one heat exchanger in the process of condensing water vapor from the humid air; ~~c~~ and means for enhancing the rate of at which water vapor is condensed from the humid air, the means for controlling the volume of the cooling fluid passing through the at least one heat exchanger comprises: at least one inlet reservoir open to the environment for receiving the cooling fluid, said at least one inlet reservoir comprises at least one float valve for maintaining a volume of

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cooling water in said inlet reservoir at a predetermined inlet upper level; at least one outlet reservoir open to the environment for receiving the cooling fluid discharged from the heat exchanger, said at least one outlet reservoir comprises a controller for controlling an outlet upper level that is below the inlet upper level; and the at least one heat exchanger has a cooling fluid circuit extending from the inlet reservoir through the heat exchanger to the outlet reservoir, the inlet end of the cooling fluid circuit is disposed below the inlet upper level, and the outlet end of the cooling fluid circuit is disposed below the outlet upper level, whereby, a regulated flow of cooling fluid is siphoned through the cooling fluid circuit by a vacuum created when the controller lowers the outlet upper level in the outlet reservoir in response to the temperature of the cooling fluid at the outlet end of the water circuit, wherein the controller comprises an actuated valve, for regulating the release of cooling fluid from the outlet reservoir and adjusting the outlet upper level, operably connected that is responsive to the temperature of the cooling fluid in the outlet reservoir.--

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL CARTON whose telephone number is (571)270-7837. The examiner can normally be reached on Monday-Friday 7:30am - 5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion can be reached on (571)272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. C./  
Examiner, Art Unit 3748

/Thomas E. Denion/  
Supervisory Patent Examiner, Art Unit 3748